

A REDSHIFT DISTRIBUTION OF SCUBA SUB-MM GALAXIES THROUGH KECK SPECTROSCOPY, AND MODELING OF THE POPULATION

Scott Chapman, I. Smail, A. Blain, R. Ivison
California Institute of Technology, 1200 E. California Blvd., Pasadena, CA 91125

ABSTRACT

We have obtained Keck spectroscopic identifications for a large number of sub-mm luminous galaxies, selected from SCUBA surveys on the JCMT. Comparison of the sample with Monte Carlo simulations of the total population reveals the nature of the overall population and the biases inherent in radio selection of sub-mm sources. We highlight the importance of wide bandwidth heterodyne instruments to fill in the redshifts for the submm sources missing from our surveys.

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Contact information for S. Chapman: Email: schapman@iraastro.caltech.edu